



# FCC Test Report

APPLICANT : Xiaomi Communications Co., Ltd.  
EQUIPMENT : Mobile Phone  
BRAND NAME : Xiaomi  
MODEL NAME : 24129PN74G  
FCC ID : 2AFZZPN74G  
STANDARD : 47 CFR Part 15 Subpart B  
CLASSIFICATION : Certification  
TEST DATE(S) : Sep. 11, 2024 ~ Sep. 16, 2024

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



**Sporton International Inc. (Kunshan)**

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of China**



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### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	Under limit 5.65 dB at 4.647 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 3.80 dB at 32.91 MHz for Quasi-Peak

**Conformity Assessment Condition:**  
The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. Please refer to each test results in the section "Measurement Uncertainty".

**Disclaimer:**  
The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



# 1. General Description

## 1.1. Applicant

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

## 1.2. Manufacturer

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

## 1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Xiaomi
Model Name	24129PN74G
FCC ID	2AFZZPN74G
EUT supports Radios application	GSM/WCDMA/LTE/5G NR WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 2.4GHz 802.11be EHT20/EHT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160 WLAN 5GHz 802.11be EHT20/EHT40/EHT80/EHT160 WLAN 6GHz 802.11a/ax HE20/HE40/HE80/HE160 WLAN 6GHz 802.11be EHT20/EHT40/EHT80/EHT160/EHT320 Bluetooth BR/EDR/LE GNSS/NFC/WPT
IMEI Code	Conduction: 864868070031088/864868070031096 for Sample 1 864868070060004/864868070060012 for Sample 2 Radiation: 864868070030981/864868070030999 for Sample 1 864868070058909/864868070058917 for Sample 2
HW Version	135200003
SW Version	Xiaomi HyperOS 2.0
EUT Stage	Identical Prototype

**Remark:**

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two type of EUT. The difference between them is memory capacity: sample 1 with 12+256G capacity , Sample 2 with 12+512G capacity According to the difference, we chose sample 1 to perform full test and sample 2 to verify the worst cases of sample 1.







	Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : $\pi/4$ -DQPSK Bluetooth (3Mbps) : 8-DPSK GNSS : BPSK NFC: ASK WPT: ASK
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### 1.5. Modification of EUT

No modifications are made to the EUT during all test items.

### 1.6. Test Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

<b>Test Firm</b>	Sporton International Inc. (Kunshan)		
<b>Test Site Location</b>	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	CO01-KS 03CH02-KS	CN1257	314309

### 1.7. Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH02-KS	AUDIX	E3	6.2009-8-24al
2.	CO01-KS	AUDIX	E3	6.2009-8-24



## **1.8. Applicable Standards**

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 15 Subpart B
- ♦ ANSI C63.4-2014

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.



## 2. Test Configuration of Equipment Under Test

### 2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

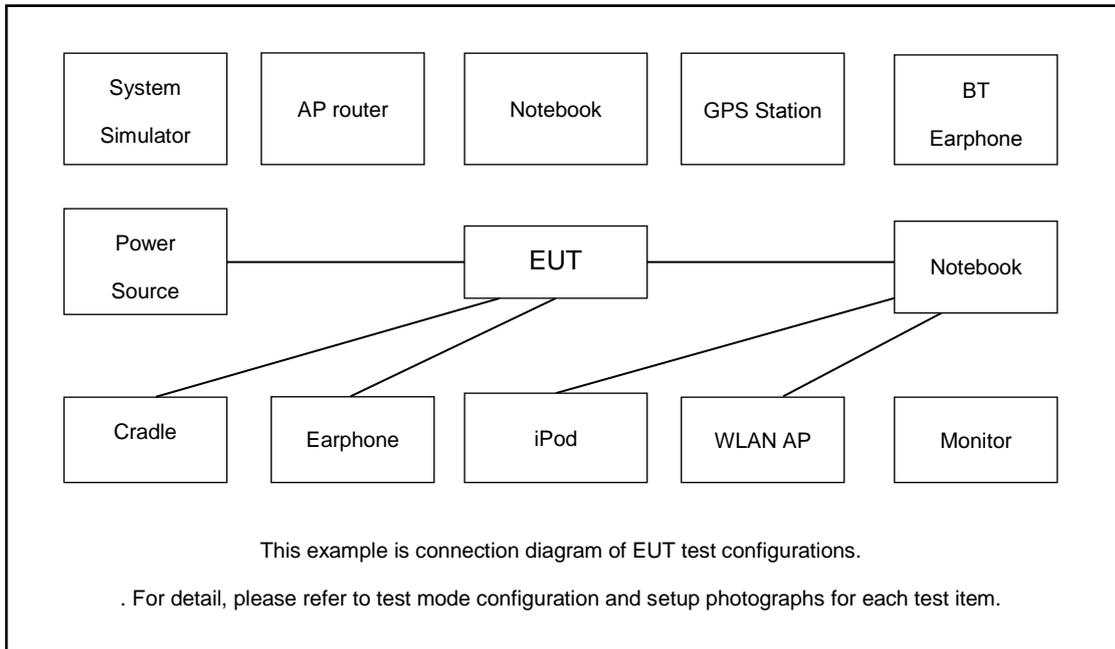
Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
AC Conducted Emission	Mode 1: GSM 850 Rx(Middle) + ANT 0 + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + Battery + USB Cable 1(Charging from Adapter 1) + SIM 1 for Sample 1
	Mode 2: WCDMA band 5 Rx(Middle) + ANT 0 + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Battery + USB Cable 2(Charging from Adapter 2) + SIM 2 for Sample 1
	Mode 3: LTE Band 26 Rx(High) + ANT 0 + Bluetooth Idle + WLAN (6G) Idle + MPEG4(Run Color Bar) + Battery + USB Cable 2(EUT (eMMC) USB Data Link to NB) + SIM 2 for Sample 1
	Mode 4: n5 Rx(Middle) + ANT 0 + Bluetooth Idle + WLAN (2.4G) Idle + NFC On + Battery + USB Cable 2 (NB USB Data Link to EUT (eMMC)) + SIM 2 for Sample 1
	Mode 5: LTE B13 Rx(High) + ANT 0 + Bluetooth Idle + WLAN (5G) Idle + GNSS Rx + Battery + USB Cable 2(Charging from wireless charging cradle) + SIM 2 for Sample 1
	Mode 6: LTE B17 Rx(Low) + ANT 0 + Bluetooth Idle + WLAN (6G) Idle + Camera(Front) + Battery + USB Cable 2 (EUT Charging from Adapter2) + EUT wireless charge the other phones + SIM 2 for Sample 1
	Mode 7: LTE B17 Rx(Low) + ANT 0 + Bluetooth Idle + WLAN (6G) Idle + Camera(Front) + Battery + USB Cable 2(EUT (eMMC) USB Data Link to NB) + SIM 2 for Sample 2



Radiated Emissions	<p>Mode 1: GSM 850 Rx(Low) + ANT 0 + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + Battery + USB Cable 1(Charging from Adapter 1) + SIM 1 for Sample 1</p> <p>Mode 2: WCDMA band 5 Rx(Middle) + ANT 0 + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Battery + USB Cable 2(Charging from Adapter 2) + SIM 2 for Sample 1</p> <p>Mode 3: LTE Band 26 Rx(High) + ANT 0 + Bluetooth Idle + WLAN (6G) Idle + MPEG4(Run Color Bar) + Battery + USB Cable 1(EUT (eMMC) USB Data Link to NB) + SIM1 for Sample 1</p> <p>Mode 4: n5 Rx(Middle) + ANT 0 + Bluetooth Idle + WLAN (2.4G) Idle + NFC On + Battery + USB Cable 1(NB USB Data Link to EUT (eMMC)) + SIM1 for Sample 1</p> <p>Mode 5: LTE B13 Rx(High) + ANT 0 + Bluetooth Idle + WLAN (5G) Idle + GNSS Rx + Battery + USB Cable(Typec to Typec)(EUT Charging to other phones) + SIM1 for Sample 1</p> <p>Mode 6: LTE B17 Rx(Low) + ANT 0 + Bluetooth Idle + WLAN (6G) Idle + NFC On + Battery + USB Cable 1(Charging from wireless charging cradle) + SIM1 for Sample 1</p> <p>Mode 7: LTE Band 26 Rx(High) + ANT 0 + Bluetooth Idle + WLAN (6G) Idle + MPEG4(Run Color Bar) + Battery + USB Cable1(EUT Charging from Adapter1) + (EUT wireless charge the other phones) + SIM1 for Sample1</p> <p>Mode 8: LTE Band 26 Rx(High) + ANT 0 + Bluetooth Idle + WLAN (6G) Idle + MPEG4(Run Color Bar) + Battery + Earphone + SIM1 for Sample 1</p> <p>Mode 9: LTE Band 26 Rx(High) + ANT 0 + Bluetooth Idle + WLAN (6G) Idle + MPEG4(Run Color Bar) + Battery + USB Cable 1(EUT (eMMC) USB Data Link to NB) + SIM1 for Sample 2</p>
<p><b>Remark:</b></p> <ol style="list-style-type: none"> <li>1. The worst case of AC is mode 6; only the test data of this mode is reported.</li> <li>2. The worst case of RE is mode 3; only the test data of this mode is reported.</li> <li>3. Data Link with Notebook means data application transferred mode between EUT and Notebook.</li> <li>4. Pre-scanned Low/Middle/High channel, the worst channel was recorded in this report.</li> </ol>	

## 2.2. Connection Diagram of Test System



The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application

## 2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritus	MT8821C	N/A	N/A	Unshielded,1.8m
2.	System Simulator	Anritus	MT8000A	N/A	N/A	Unshielded,1.8m
3.	Vector Signal Generator	R&S	SMBV100A	258305	N/A	N/A
4.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
5.	WLAN AP	TP-Link	TL-WDR5600	N/A	N/A	N/A
6.	Bluetooth Earphone	Xiao mi	LYEJ02LM	N/A	N/A	N/A
7.	Earphone	MOTO	LYEJ02LM	N/A	N/A	N/A
8.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	Shielded cable DC O/P 1.8m, Unshielded AC I/P cable 1.8m
9.	Notebook	HONOR	N/A	N/A	N/A	N/A
10.	Hard disk	Ultra	WD	N/A	N/A	N/A
11.	Hard disk	Lenovo	F310	DoC	N/A	Shielded, 1.2m
12.	NFC Card	N/A	N/A	N/A	N/A	N/A
13.	Wireless charger	N/A	N/A	N/A	N/A	N/A
14.	Mobile Phone	Xiaomi	N/A	N/A	N/A	N/A



## **2.4. EUT Operation Test Setup**

The EUT was in GSM or WCDMA or LTE or 5G NR idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

1. Data application is transferred between notebook and EUT via USB cable.
2. Turn on camera to capture images.
3. Turn on MPEG4 function.
4. Turn on GNSS function to make the EUT receive continuous signals from GNSS station.
5. Turn on NFC function.
6. Turn on WPT function.



### 3. Test Result

#### 3.1. Test of AC Conducted Emission Measurement

##### 3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

<Class B Limit>

Frequency of emission (MHz)	Conducted limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

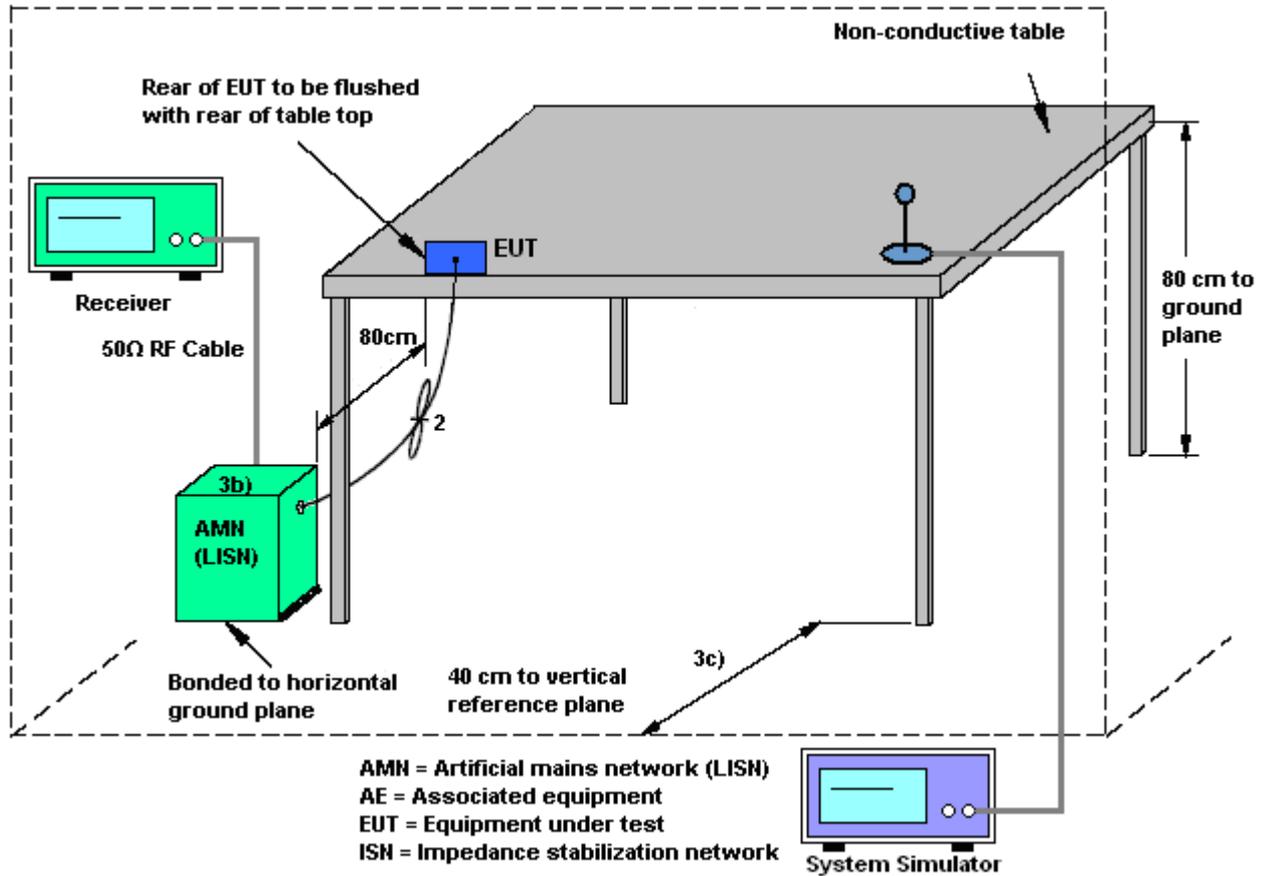
##### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

##### 3.1.3 Test Procedure

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

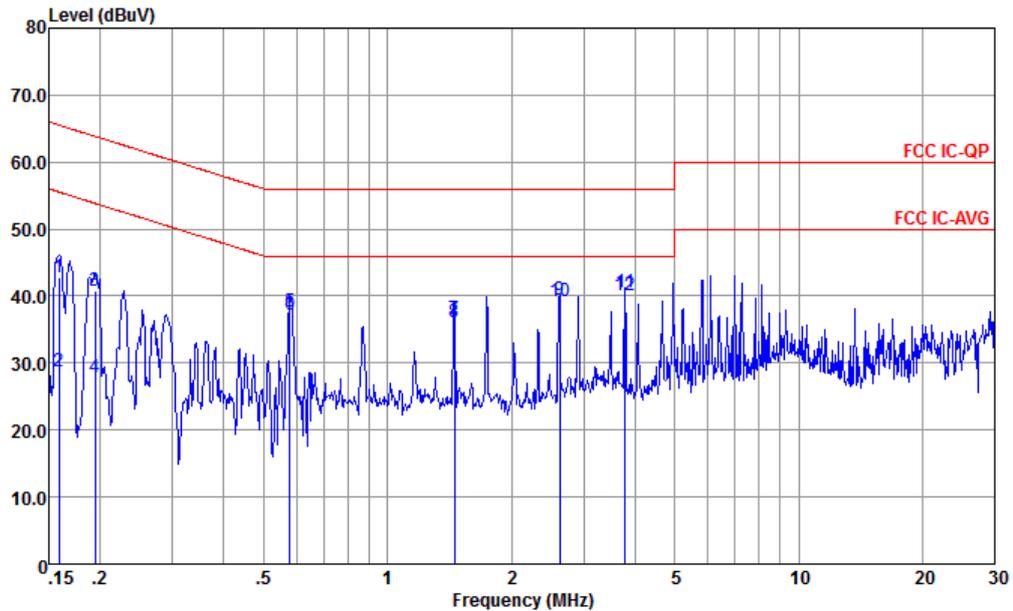
### 3.1.4 Test Setup





3.1.5 Test Result of AC Conducted Emission

Test Engineer :	Amos	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

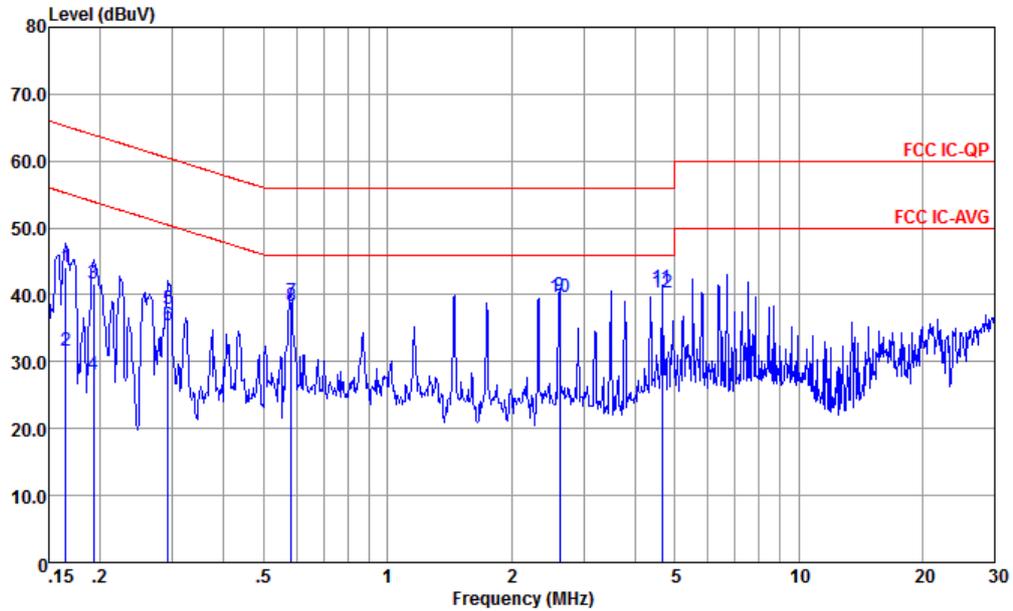


Site : CO01-KS  
 Condition : FCC IC-QP LISN-060105-L 2024 LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.159	42.73	-22.79	65.52	32.20	0.11	10.42	QP
2	0.159	28.73	-26.79	55.52	18.20	0.11	10.42	Average
3	0.194	40.69	-23.15	63.84	30.20	0.08	10.41	QP
4	0.194	27.79	-26.05	53.84	17.30	0.08	10.41	Average
5	0.579	37.66	-18.34	56.00	27.60	-0.13	10.19	QP
6	0.579	37.16	-8.84	46.00	27.10	-0.13	10.19	Average
7	1.456	36.48	-19.52	56.00	26.60	-0.20	10.08	QP
8	1.456	36.08	-9.92	46.00	26.20	-0.20	10.08	Average
9	2.622	39.49	-16.51	56.00	29.60	-0.18	10.07	QP
10	2.622	39.29	-6.71	46.00	29.40	-0.18	10.07	Average
11	3.779	40.48	-15.52	56.00	30.60	-0.19	10.07	QP
12 *	3.779	40.18	-5.82	46.00	30.30	-0.19	10.07	Average



Test Engineer :	Amos	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS  
 Condition : FCC IC-QP LISN-060105-N 2024 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.165	44.14	-21.07	65.21	33.60	0.12	10.42	QP
2	0.165	31.74	-23.47	55.21	21.20	0.12	10.42	Average
3	0.192	41.74	-22.19	63.93	31.20	0.13	10.41	QP
4	0.192	28.14	-25.79	53.93	17.60	0.13	10.41	Average
5	0.292	37.83	-22.63	60.46	27.60	-0.11	10.34	QP
6	0.292	35.33	-15.13	50.46	25.10	-0.11	10.34	Average
7	0.582	38.93	-17.07	56.00	28.91	-0.16	10.18	QP
8	0.582	38.43	-7.57	46.00	28.41	-0.16	10.18	Average
9	2.622	39.97	-16.03	56.00	30.10	-0.20	10.07	QP
10	2.622	39.67	-6.33	46.00	29.80	-0.20	10.07	Average
11	4.647	41.05	-14.95	56.00	31.20	-0.21	10.06	QP
12 *	4.647	40.35	-5.65	46.00	30.50	-0.21	10.06	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



### 3.2. Test of Radiated Emission Measurement

#### 3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

<Class B Limit>

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

#### 3.2.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

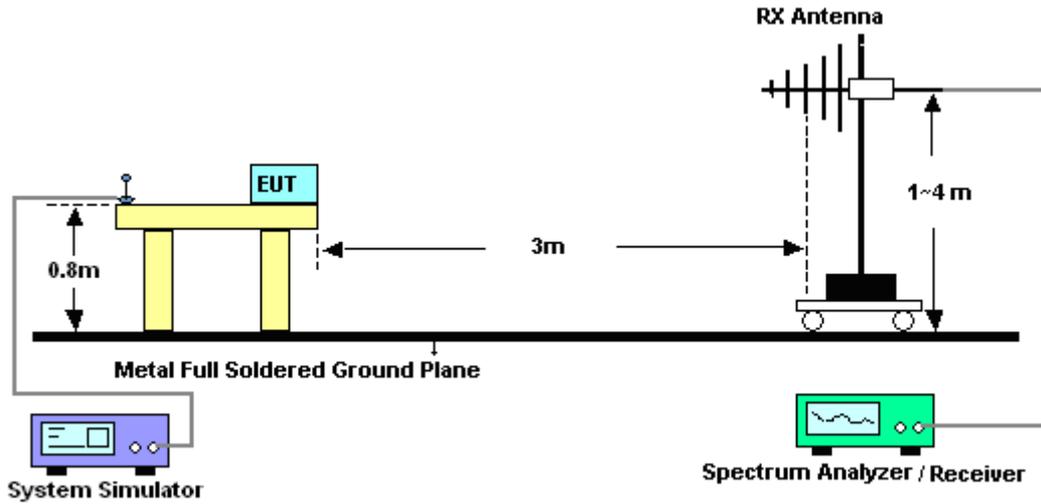


### **3.2.3. Test Procedures**

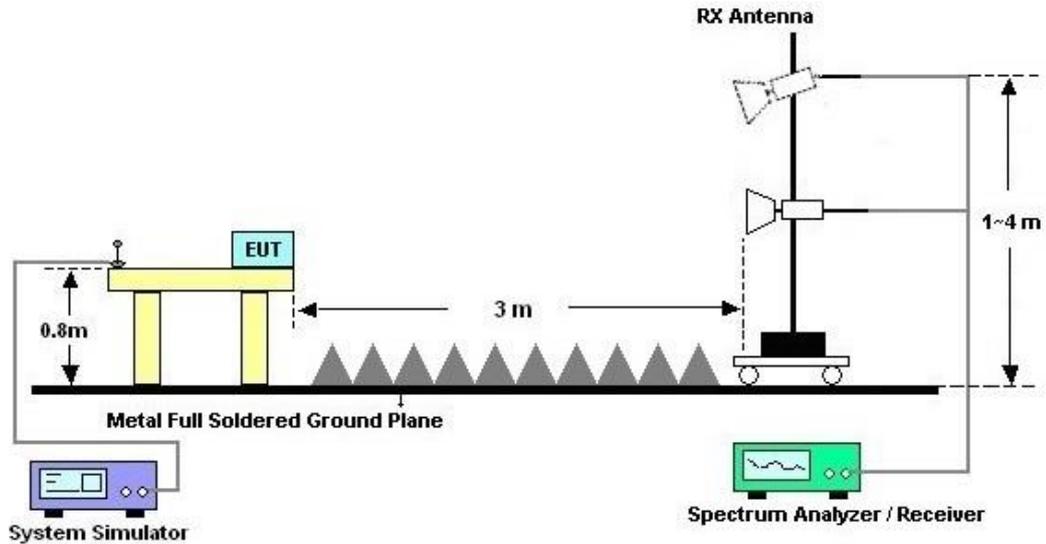
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
8. Emission level (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
10. Exploratory radiated emissions testing of handheld and/or body-worn devices shall include rotation of the EUT through three orthogonal axes (X/Y/Z Plane) to determine the orientation (attitude) that maximizes the emissions.

### 3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



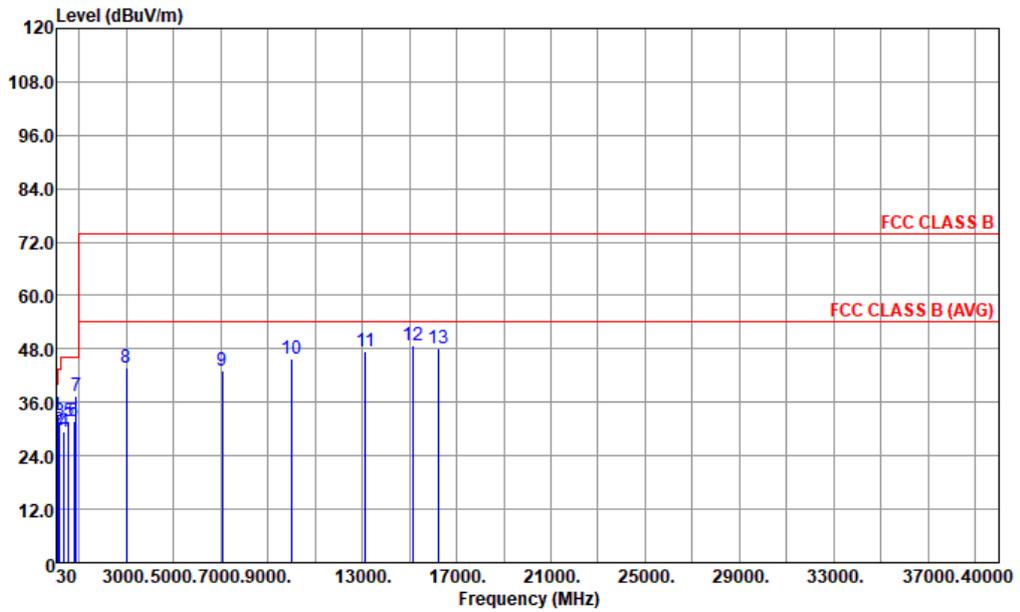
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

Test Engineer :	Levi Zhuo	Temperature :	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#7 is system simulator signal which can be ignored.		

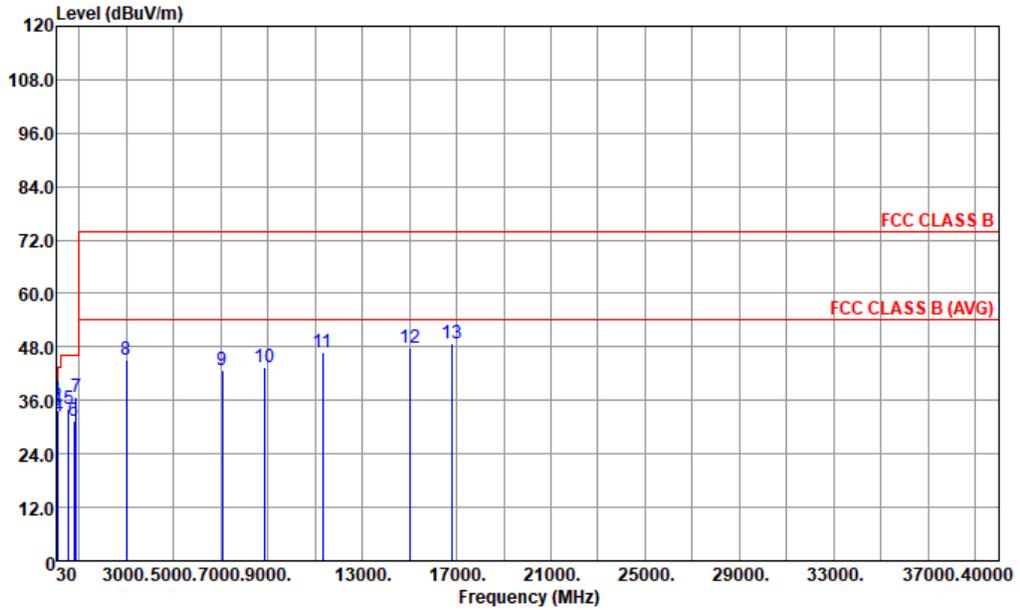


Site : 03CH02-KS  
 Condition : FCC CLASS B 3m 00251694 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1 p	62.01	32.93	-7.07	40.00	52.61	11.94	1.10	32.72	---	Peak
2	140.58	29.88	-13.62	43.50	43.22	17.61	1.75	32.70	---	Peak
3	173.56	31.82	-11.68	43.50	46.88	15.75	1.92	32.73	---	Peak
4	352.04	29.32	-16.68	46.00	38.80	20.62	2.76	32.86	---	Peak
5	560.59	31.68	-14.32	46.00	35.28	26.35	3.29	33.24	---	Peak
6	786.60	31.86	-14.14	46.00	32.27	28.48	4.18	33.07	---	Peak
7	886.51	37.43			36.24	29.17	4.42	32.40	---	Peak
8	2989.00	43.68	-30.32	74.00	65.51	32.80	8.34	62.97	---	Peak
9	7052.00	43.28	-30.72	74.00	58.49	35.70	13.21	64.12	---	Peak
10	9976.00	45.68	-28.32	74.00	54.81	37.17	15.94	62.24	---	Peak
11	13138.00	47.47	-26.53	74.00	52.39	38.83	18.27	62.02	---	Peak
12	15127.00	48.69	-25.31	74.00	51.78	39.90	19.57	62.56	---	Peak
13	16249.00	48.29	-25.71	74.00	49.76	40.75	20.52	62.74	---	Peak



Test Engineer :	Levi Zhuo	Temperature :	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Vertical
Remark :	#7 is system simulator signal which can be ignored.		



Site : 03CH02-KS  
 Condition : FCC CLASS B 3m 00251694 VERTICAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg		
1 q	32.91	36.20	-3.80	40.00	44.45	23.78	0.76	32.79	100	322 QP	
2 p	61.04	34.69	-5.31	40.00	54.41	11.91	1.09	32.72	---	---	Peak
3	73.65	33.75	-6.25	40.00	52.28	12.99	1.20	32.72	---	---	Peak
4	108.57	32.56	-10.94	43.50	46.70	16.98	1.54	32.66	---	---	Peak
5	560.59	34.24	-11.76	46.00	37.84	26.35	3.29	33.24	---	---	Peak
6	786.60	31.47	-14.53	46.00	31.88	28.48	4.18	33.07	---	---	Peak
7	886.51	36.89			35.70	29.17	4.42	32.40	---	---	Peak
8	2989.00	45.25	-28.75	74.00	67.08	32.80	8.34	62.97	---	---	Peak
9	7052.00	42.75	-31.25	74.00	57.96	35.70	13.21	64.12	---	---	Peak
10	8837.00	43.37	-30.63	74.00	55.89	36.00	14.75	63.27	---	---	Peak
11	11336.00	46.85	-27.15	74.00	53.62	37.90	16.94	61.61	---	---	Peak
12	15025.00	47.77	-26.23	74.00	51.01	39.82	19.48	62.54	---	---	Peak
13	16793.00	48.94	-25.06	74.00	49.31	41.50	20.89	62.76	---	---	Peak

Note:

- Level(dBuV/m) = Read Level(dBuV) + Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Factor(dB)
- Over Limit(dB) = Level(dBuV/m) – Limit Line(dBuV/m)



### 4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Max 30dBm	Oct. 11, 2023	Sep. 11, 2024	Oct. 10, 2024	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Oct. 11, 2023	Sep. 11, 2024	Oct. 10, 2024	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 06, 2023	Sep. 11, 2024	Dec. 05, 2024	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 23, 2023	Sep. 11, 2024	Oct. 22, 2024	Radiation (03CH02-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 27, 2024	Sep. 11, 2024	Jan. 26, 2025	Radiation (03CH02-KS)
Amplifier	EM	EM18G40GGA	060852	18~40GHz	Jan. 02, 2024	Sep. 11, 2024	Jan. 01, 2025	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	413740	9KHz-1GHz	Jan. 03, 2024	Sep. 11, 2024	Jan. 02, 2025	Radiation (03CH02-KS)
Amplifier	EM	EM01G18G	060806	1GHz~18GHz	Oct. 11, 2023	Sep. 11, 2024	Oct. 10, 2024	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Sep. 11, 2024	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Sep. 11, 2024	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Sep. 11, 2024	NCR	Radiation (03CH02-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 18, 2024	Sep. 16, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 11, 2023	Sep. 16, 2024	Oct. 10, 2024	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 18, 2024	Sep. 16, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 11, 2023	Sep. 16, 2024	Oct. 10, 2024	Conduction (CO01-KS)

NCR: No Calibration Required



## 5. Measurement Uncertainty

### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84 dB
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.04 dB
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.12 dB
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.30 dB
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